

4-1989

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TITLE: **Fused refractory** material for furnaces - is based on corundum and contains zirconium and boron oxide(s) to reduce porosity

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Basic Abstract Text - ABTX (1):

Fused corundum-based **refractory** material for use in glassmaking and metallurgical furnaces, has increased apparent density and low porosity. Its compsn. (in wt.%) is: **SiO₂** 0.3-5.0, **TiO₂** 0.1-0.5, **CaO** 0.2-0.7, **MgO** 0.1-0.3, **Fe₂O₃** 0.1-0.5, **Na₂O** 0.3-2.0, **K₂O** 0.1-0.3, **ZrO₂** 0.5-12.0, **B₂O₃** 0.3-2.0, remainder **Al₂O₃**. The ZrO₂ forms centres of crystallisation, helping to produce a dense fine-crystalline structure; the B₂O₃ forms an alumoborosilicate phase which fills the pores between the corundum crystals. The optimum addns. are 5-7% ZrO₂ and 0.3 B₂O₃.

Title - TIX (1):

Fused refractory material for furnaces - is based on corundum and contains zirconium and boron oxide(s) to reduce porosity

Standard Title Terms - TTX (1):

FUSE REFRACTORY MATERIAL FURNACE BASED CORUNDUM CONTAIN ZIRCONIUM BORON OXIDE REDUCE POROUS